

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

- 1 1. (Currently amended): An optical head for focusing laser light on an
2 optical information medium and receiving reflected light from the optical information medium
3 comprising:
4 a first laser emitting component disposed on a first substrate and operable to
5 produce laser light at a first wavelength; and
6 a second laser emitting component disposed on a second substrate and operable to
7 produce laser light at a second wavelength and ~~for to detecting~~ laser light, the second substrate
8 separate from the first substrate, the second laser emitting component comprising:
9 a first light receiving element disposed on the second substrate and
10 arranged to receive reflected light of the laser light of the first wavelength; and
11 a second light receiving element disposed on the second substrate and
12 arranged to receive reflected light of the laser light of the second wavelength,
13 wherein the first laser emitting component is further configured to produce laser
14 light of a third wavelength different from the first wavelength and different from the second
15 wavelength,
16 wherein the second laser emitting component further comprises a third receiving
17 element disposed on the second substrate to receive reflected light of the laser light of the third
18 wavelength.
- 1 2. (Original): The optical head of claim 1 wherein the first wavelength is
2 different from the second wavelength.
- 1 3. (Currently amended): The optical head of claim 1 wherein the ~~third~~
2 second wavelength is about 410 nanometers.

1 4. (Currently amended): The optical head of claim 3 wherein the first
2 wavelength is about 650 nanometers and the ~~second~~third wavelength is about 780 nanometers.

5. (Canceled)

1 6. (~~Original~~Currently amended): ~~The optical head of claim 1~~An optical
2 head for focusing laser light on an optical information medium and receiving reflected light from
3 the optical information medium comprising:

4 a first laser emitting component disposed on a first substrate and operable to
5 produce laser light at a first wavelength; and

6 a second laser emitting component disposed on a second substrate and operable to
7 produce laser light at a second wavelength and to detect laser light, the second substrate separate
8 from the first substrate, the second laser emitting component comprising:

9 a first light receiving element disposed on the second substrate and
10 arranged to receive reflected light of the laser light of the first wavelength; and

11 a second light receiving element disposed on the second substrate and
12 arranged to receive reflected light of the laser light of the second wavelength,

13 wherein the second laser emitting component is further configured to produce
14 laser light of a third wavelength different from the first wavelength and different from the second
15 wavelength, and wherein the second laser emitting component further comprises a third
16 receiving element disposed on the second substrate to receive reflected light of the laser light of
17 the third wavelength.

1 7. ~~(Original)~~(Currently amended): An optical head for directing laser light to
2 an optical information medium and for receiving reflected laser light from the optical
3 information medium, comprising:
4 a laser chip for emitting a first beam of light at a first wavelength, the laser diode
5 disposed on a first substrate;
6 a laser module comprising a second substrate separate from the first substrate, the
7 laser module for emitting at least second beam of light at a second wavelength, the laser module
8 further having a plurality of receiving elements disposed on the second substrate;
9 a beam splitter to guide the first and the second beams to the optical information
10 medium; and
11 a focus lens to focus the first and second beams onto the optical information
12 medium, thereby producing reflected light from the optical information medium,
13 the beam splitter guiding the reflected light to the receiving elements of the laser
14 module;
15 wherein the laser chip is configured to selectively produce the first beam of light
16 at the first wavelength and at a third wavelength, wherein the beam splitter is disposed such that
17 an optical axis of the first beam of light is substantially in alignment with an optical axis of the
18 second beam of light.

1 8. (Currently amended): ~~The optical head of claim 7~~ An optical head for
2 directing laser light to an optical information medium and for receiving reflected laser light from
3 the optical information medium, comprising:
4 a laser chip for emitting a first beam of light at a first wavelength, the laser diode
5 disposed on a first substrate;
6 a laser module comprising a second substrate separate from the first substrate, the
7 laser module for emitting at least second beam of light at a second wavelength, the laser module
8 further having a plurality of receiving elements disposed on the second substrate;
9 a beam splitter to guide the first and the second beams to the optical information
10 medium; and

11 a focus lens to focus the first and second beams onto the optical information
12 medium, thereby producing reflected light from the optical information medium,
13 the beam splitter guiding the reflected light to the receiving elements of the laser
14 module,
15 wherein the laser module is configured to selectively produce the second beam
16 light at the second wavelength and at a third wavelength, wherein the beam splitter is disposed at
17 a location such that an optical axis of the first beam of light is substantially aligned with an
18 optical axis of the second beam of light.

1 9. (Original): The optical head of claim 8 wherein the laser module
2 comprises a first laser chip and a second laser chip disposed on the second substrate.

1 10. (Original): The optical head of claim 9 wherein the laser chip is
2 configured to produce the first beam of light at only the first wavelength.

 11. (Canceled)

1 12. (Original): The optical head of claim 7 further comprising a beam shaping
2 prism disposed between the laser diode and the beam splitter.

1 13. (New): The optical head of claim 6 wherein the first wavelength is
2 different from the second wavelength.

1 14. (New): The optical head of claim 6 wherein the second wavelength is
2 about 410 nanometers.

1 15. (New): The optical head of claim 6 wherein the first wavelength is about
2 650 nanometers and the third wavelength is about 780 nanometers.